

Quick Start

Required equipment

MAXREFDES150# Case (Pocket IO) with MAXREFDES150ATTACH#

Two 40-pin cable assemblies

24V, 1A power supply

USB cable

Windows® PC with a USB Port

Arduino IDE Software

Procedure

Maxim Pocket IO Arduino Installation Instructions

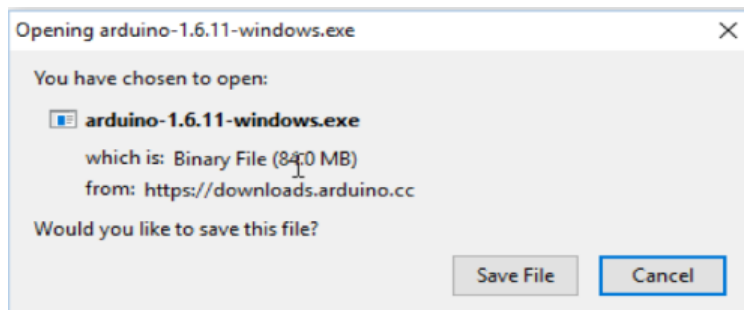
1. Download and install the latest Arduino IDE.

a. Go to <https://www.arduino.cc/en/Main/Software>.

b. Select the appropriate OS link (Windows, MAC®, Linux®). For this Quick Start we assume the OS is Windows PC.

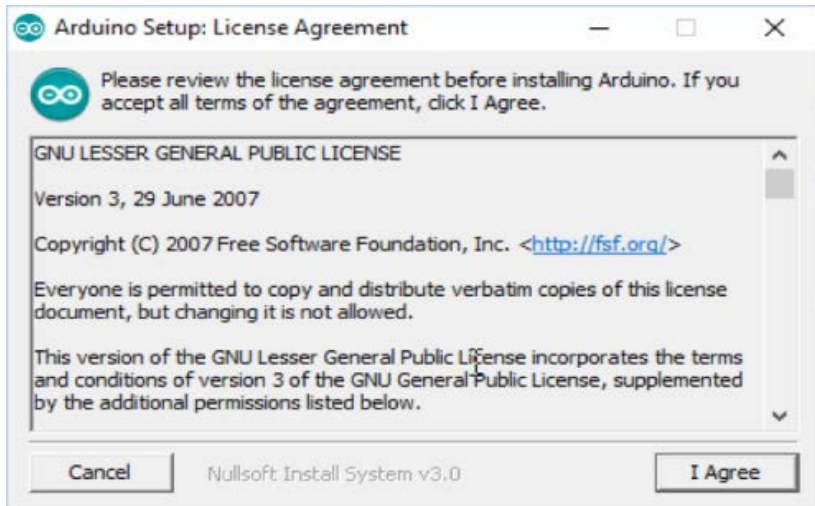


c. Follow the prompts to download and save the file.

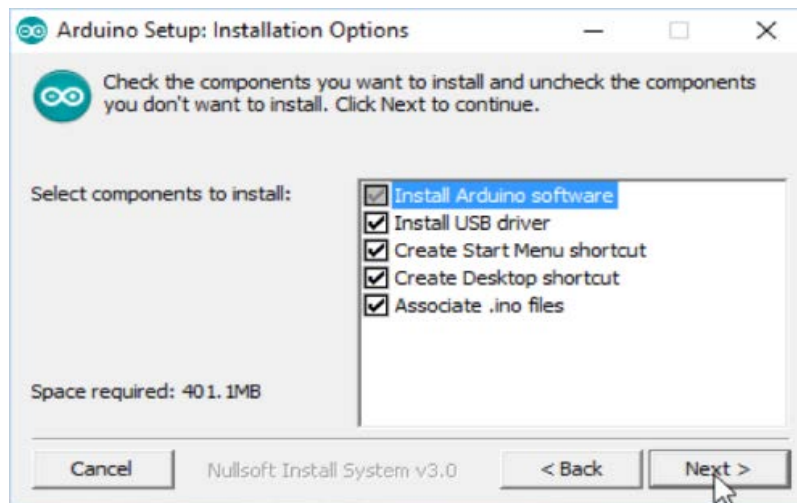


2. Install the latest Arduino IDE.

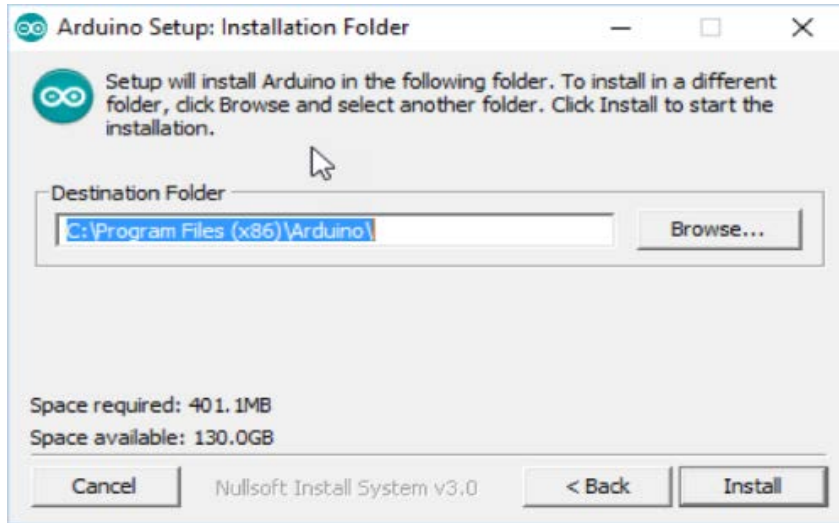
- a. Once the download has completed double click '**Arduino-x.x.xx-windows.exe.**'
- b. Windows then prompts you to run this file, select '**Run.**'
- c. The Arduino setup displays the license agreement, select '**I Agree.**'



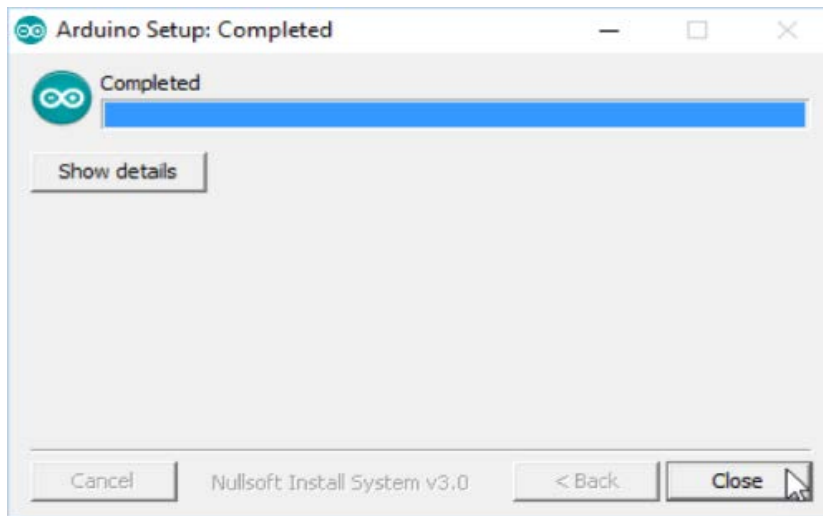
- d. It prompts you to select components to install, select '**Next.**'



e. Next it shows the destination folder to install, select **'Install.'**



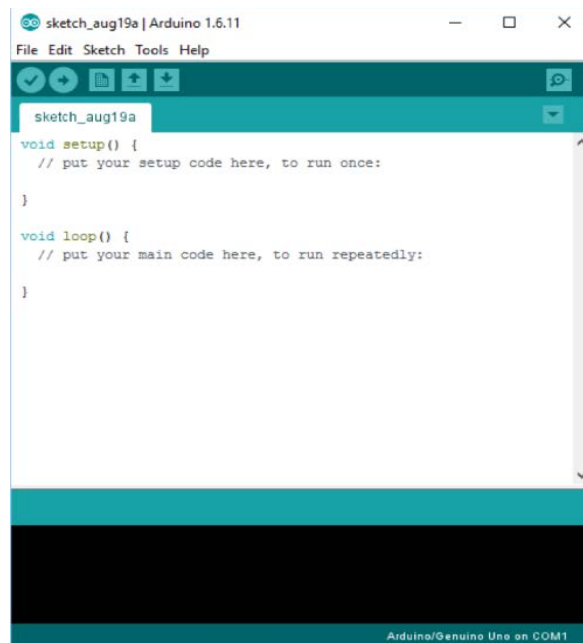
f. When Arduino setup is completed select **'Close.'**



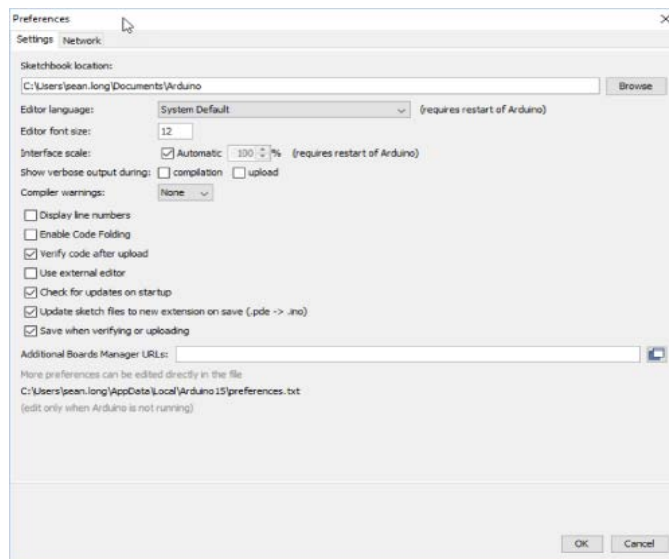
3. Install Maxim's Pocket IO Board.

a. Locate the **'Arduino'** shortcut on your desktop and double click the icon to open the Arduino IDE.

b. A window opens as shown below, select **File > Preferences.**

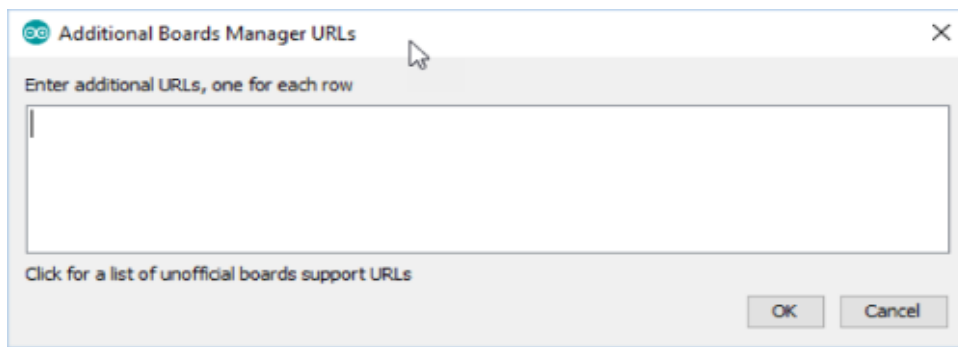


c. In the 'Preferences' window there is a section 'Additional Boards Manager URLs.' Select this box.

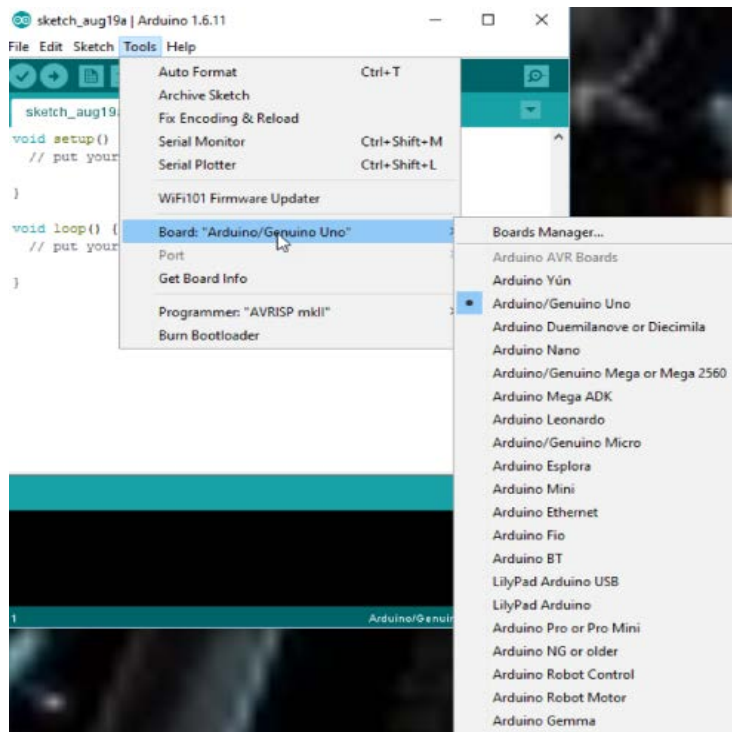


d. In the box that opens, copy and paste the URL below into this window and select 'OK', then 'OK' again.

https://raw.githubusercontent.com/maximTicer/pocketio/master/package_maxim_index.json



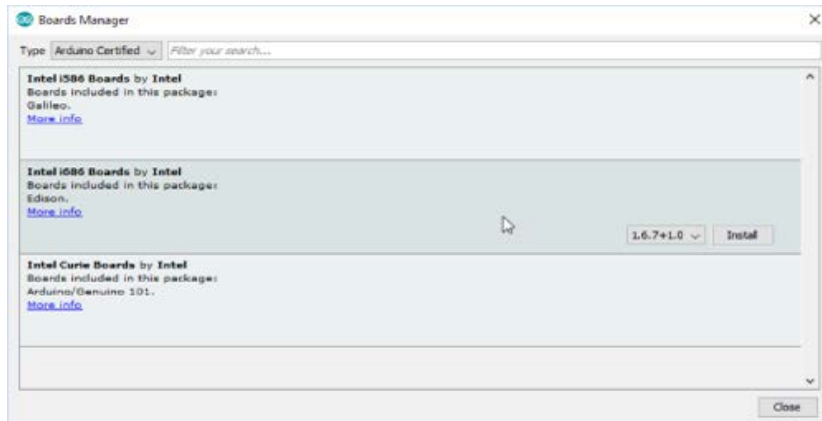
e. Select **Tools > Board > Board Manager**.



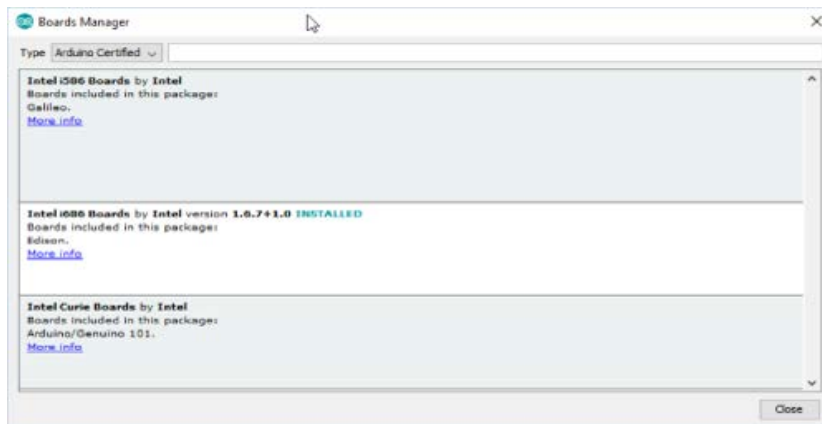
f. Open the '**Boards Manager**' window and from the drop down Type menu select '**Certified**'.



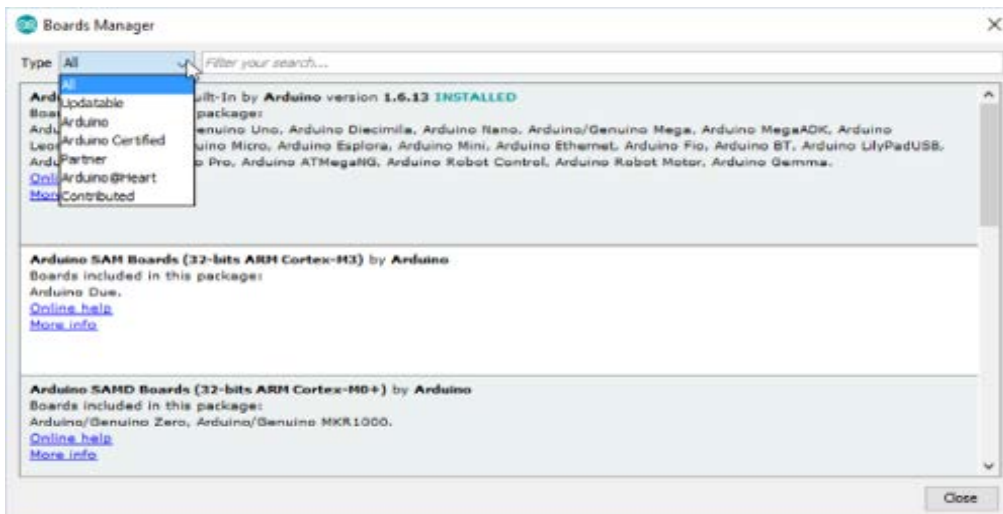
g. Select **'Intel i686 Boards by Intel'** for Edison and click **'Install'** to install rev 1.6.7+1.0 or later.



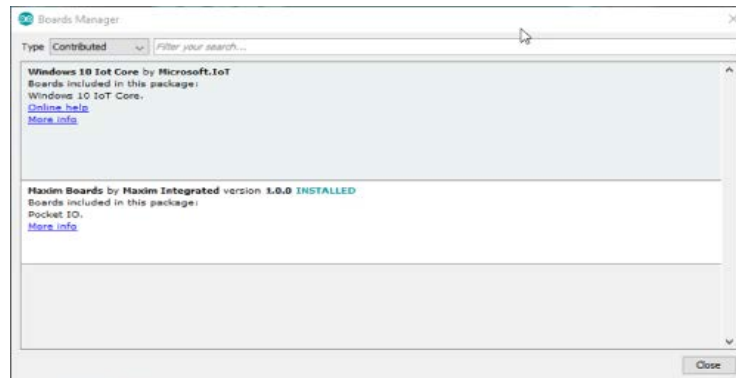
h. Once installation is completed, select **'Close.'**



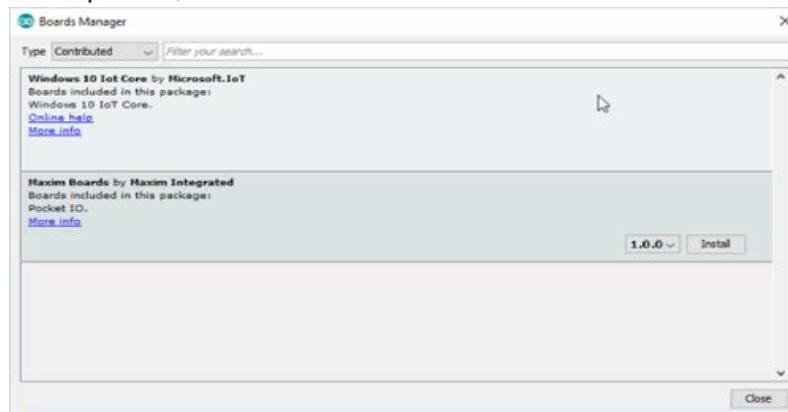
i. Open the **'Boards Manager'** window and from the drop down Type menu select **'Contributed.'**



j. Select 'Maxim Boards by Maxim Integrated' for Pocket IO and click **'Install.'**

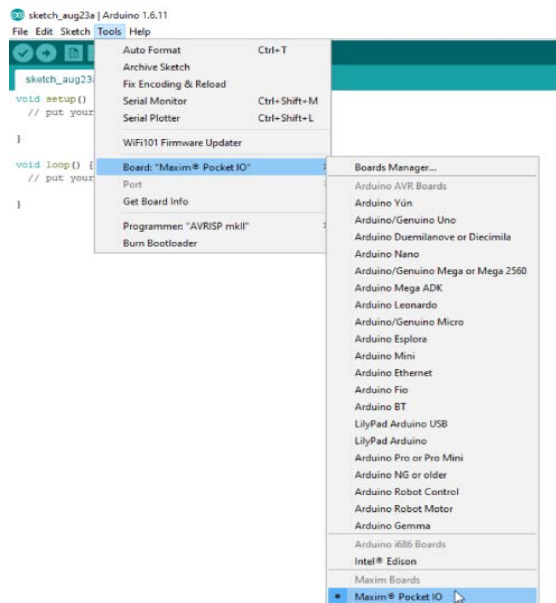


k. Once installation is completed, select **'Close.'**



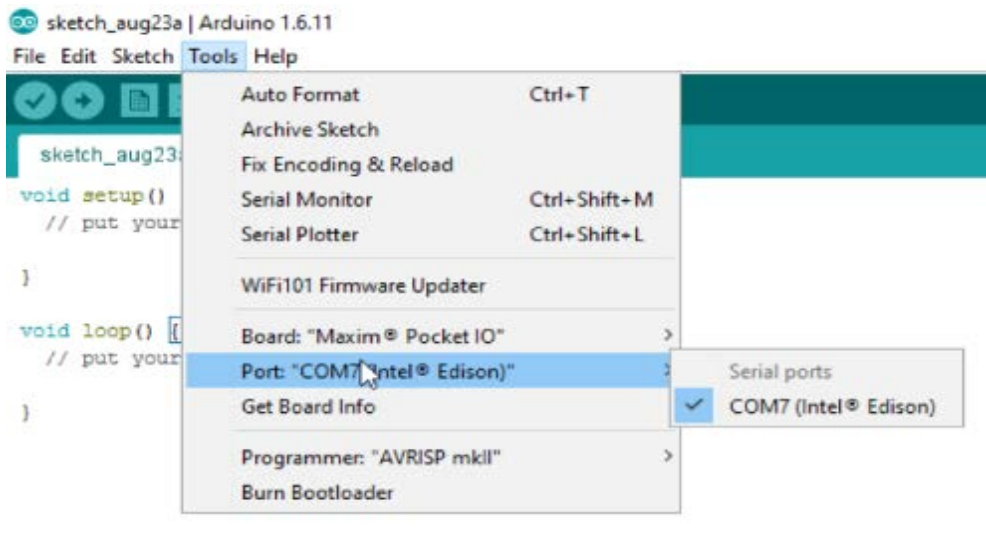
4. Using the Pocket IO with Arduino IDE.

a. To select Pocket IO as the target board, select **Tools > Board > Maxim Pocket IO.**

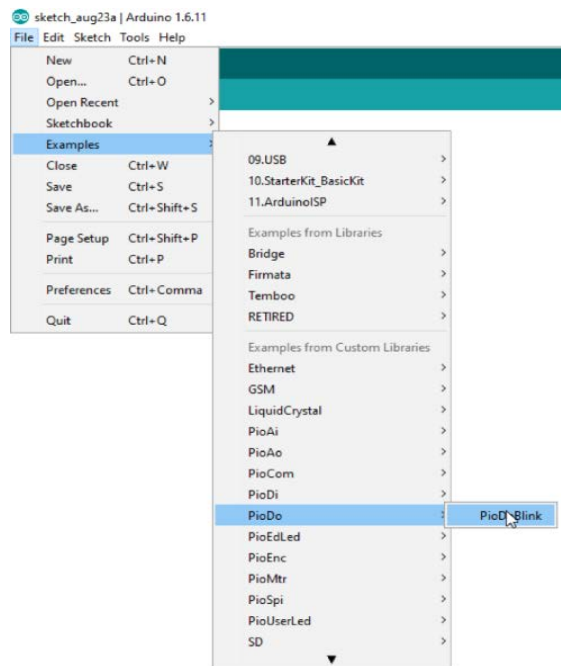


b. Make sure Pocket IO is powered with 24V, and connect the USB cable to the micro-USB connector labeled 'Edison Status' (the one nearest to the green connector). If device drivers are not automatically installed use this link to download and install the drivers: <http://downloadmirror.intel.com/24909/eng/IntelEdisonDriverSetup1.2.1.exe>

c. Select Tools > Port > COMXXX (where xxx is whichever COM port was selected when you plugged it in).



d. Next select File > Examples > PioDo > PioDoBlink.



e. A new window should appear with the example sketch selected. Press the circular button with the check mark in the top left corner to **'Verify'** or compile the sketch.



f. The window indicates it is compiling with a progress bar, and when finished, displays **'Done Compiling.'**



g. Now select the circular button with the right arrow, **'Upload'** transfers the data to the Edison and starts to run the compiled program.



h. After a few seconds the message **'Done Uploading'** is displayed and you can see the LEDs on the board flashing driven by the digital outputs.

i. A number of standard functions are included as examples to showcase the functionality of Pocket IO, or the user can develop their own sketches.